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10)

(a) They are selecting 10% of the males and 10% of the females. Males and females each have a $1/10$ chance of being selected out of their gender.

(b) They are not giving each person an equal chance of being selected out of the total population (the 1500 faculty members).

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15) (a) population = all black residents of Miami

sample = the SRS of 300 homes that were selected

(b) nonresponse = not everyone will answer/be home

there is a black officer asking questions

there is a police officer asking questions

only one day

16) Call-in polls are voluntary response and are definitely biased. Only people with strong opinions will volunteer themselves for the sample. Randomly chosen people are a much better representation of the population.

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21) Convenience sample. Not a random sample of all students. There also might be overlap of students, since she is doing this convenience sample more than once. Also, she is standing outside the cafeteria to ask questions about cafeteria food.

22) * Label each TV with #01 -- 50.

- * Read across the TRD two digits at a time, starting at line 139

- * Ignore #51 -- 99 and 00. Also ignore repeats.

- * The first 5 numbers are our sample.

Numbers: 04, 10, 43, 35, 34

TV's: A1197
 A2032
 B0046
 A2385
 A2384

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